

In the Specification

Please replace the paragraph beginning on page 1, line 5 with the following amended paragraph:

This invention relates to a technology of load monitoring of a computer system (including a computer system comprised of a plurality of computers). In particular, this invention relates to a load monitoring condition determination program, a load monitoring condition determination system, a load monitoring condition determination method and a load monitoring program, which are capable of easily determining a load monitoring condition when monitoring a load of the computer system.

Please replace the paragraph beginning on page 2, line 12 with the following amended paragraph:

As for ~~these~~ the related art of load monitoring of the computer system, the work for setting load monitoring conditions such as the monitoring items and thresholds are performed by relying on experience and skills of a system administrator. However, the setting work is also difficult for the system administrator.

Please replace the paragraph beginning on page 6, line 3 with the following amended paragraph:

~~FIG. 3~~ FIGS. 3A and 3B are diagrams showing examples of a command for measuring a resource situation and results of the command;

Please replace the paragraph beginning on page 6, line 20 with the following amended paragraph:

FIG. 1 is a diagram showing a configuration example of a load monitoring system according to a preferred embodiment of the present invention. In the configuration example in FIG. 1, a monitoring subject is a computer system 10 comprised of three servers 11 (computers) of a server A 11a, a server B 11b and a server C 11c. The servers 11a to 11c (hereafter, referred to as the servers 11) comprise internal resource situation measuring units 12a to 12c (hereafter, referred to as the internal resource situation measuring units 12) and threshold monitoring units 13a to 13c (hereafter, referred to as the threshold monitoring units 13). A load monitoring condition determination apparatus 20 comprises a load generating unit 21, an external response and throughput measuring unit 22 and a load monitoring condition judgment support unit 23. The computer ~~system 10~~ system 10, as the monitoring ~~subject~~ subject, is connected to the load monitoring condition determination apparatus 20. The load monitoring condition determination apparatus 20 also has input-output apparatus 30 having such as a display and a keyboard for input and output by an operator (system administrator) connected thereto.

Please replace the paragraph beginning on page 8, line 13 with the following amended paragraph:

While the computer system 10 is given the load by the load monitoring

condition determination apparatus 20, the internal resource situation measuring units 12 of each server 11 periodically drives a sensor (command) for measuring the resource situation (step S14), analyses the results of the command (results of measuring the resource situation) (step S15), and accumulates the analysis results (step S16). The accumulated analysis results are sent to the load monitoring condition judgment support unit 23 of the load monitoring condition determination apparatus 20. Here, to ~~analyses~~ analyze and accumulate the results of the command in the steps S15 and S16 means to manage what number a certain item is at a certain time as table data based on the results of measuring the resource situation outputted as the results of the command, for instance.

Please replace the paragraph beginning on page 8, line 24 with the following amended paragraph:

~~FIG. 3~~ FIGS. 3A and 3B are diagrams showing examples of the command for measuring the resource situation and the results of the command according to this embodiment. Here, a command “sar” of the UNIX (registered trademark) system is used as the command for measuring the resource situation.

Please replace the paragraph beginning on page 9, line 20 with the following amended paragraph:

The processes of the steps S10 to S16 are repeated by changing the pattern of the load parameter (~~steps~~ step S17).

Please replace the paragraph beginning on page 9, line 22 with the following amended paragraph:

Next, the load monitoring condition determination apparatus 20 moves on to the load monitoring condition determination phase P2 for determining the load monitoring condition based on the results of the load test (steps S10 to S17). In the phase P2, the load monitoring condition judgment support unit 23 checks the pattern of the load parameter used for the load test, the measurement results of the response and throughput, and the analysis results of the resource situation inside the computer system 10 against one another so as to determine the load monitoring condition (step S18). At this time, it presents the load test results to the system ~~administrator~~ administrator, if ~~necessary~~ necessary, and prompts the instruction. It is thereby possible to judge which server 11 (monitoring point) and which resource item (monitoring item) respond best to the given load and are suitable for monitoring indexes so as to set an appropriate threshold for monitoring the monitoring item.

Please replace the paragraph beginning on page 10, line 21 with the following amended paragraph:

Here, it is ~~thinkable~~, contemplated, as a method of handling the cases where the command results exceed the threshold, to exert control such as limiting reception of the requests from the outside of the computer system 10. It is also ~~thinkable~~, contemplated, as the method of handling the cases, to automatically balance resource allocation among

applications and among a plurality of computers by using the thresholds.

Please replace the paragraph beginning on page 12, line 7 with the following amended paragraph:

First, it is judged whether or not the marginal performance of the computer system 10 against the load from the outside was checked from the load test results (step S30). If the marginal performance is checked, the resource item which linearly responded well against the load from the outside (worked well with the applied load) is detected (step S31). The server 11 (computer) to which the detected resource belongs is determined as the monitoring point, and the detected resource item is determined as the monitoring item (step S32). An optimum threshold is determined based on the measurement results of the resource situation measured at the monitoring point and monitoring item at the limit (step S33). Next, the determined load monitoring condition is sent (step S40).

Please replace the paragraph beginning on page 18, line 17 with the following amended paragraph:

If the monitoring point and monitoring item are determined in the step S36, it is determined whether or not the resource determined as the monitoring item has reached the physical limitation by the load tests (step S37). If it has reached the physical limitation, the threshold is determined based on a physical limitation value of the resource (step S38). Next, the determined load monitoring condition is sent (step S40).

Please replace the paragraph beginning on page 19, line 3 with the following amended paragraph:

In the case where it has not reached the physical limitation in the step S37, predictions are made as to the resource situations of the monitoring point and monitoring item on the saturation of the response and throughput predicted in the step S34, and the threshold is determined based thereon (step S39). Next, the determined load monitoring condition is sent (step S40).

Please replace the paragraph beginning on page 22, line 21 with the following amended paragraph:

The predictions of the response curve and throughput curve (FIG. 7) and the predictions of the line of the resource situation (the lower portions of ~~FIGs 8 and 9~~ FIGs 8 and 9) are separately made in the flowchart of the example in FIG. 4. It is also possible, however, to make these predictions at the same time and display the graphs of the prediction results of the two lines simultaneously as in FIGs 8 and 9 so as to have the saturation points and thresholds determined at once by the system administrator.